

LISTING OF THE CLAIMS

The following is a complete listing of all the claims in the application, with an indication of the status of each:

- 1 1. (Currently Amended) A network scanner ~~apparatus connected to a least one~~
2 ~~terminal via a network~~, comprising:
3 ~~a control portion which controls the network by the use of a transmission~~
4 ~~control protocol and an Internet~~ means which controls a network by TCP/IP protocol;
5 a readout ~~portion~~ means which ~~reads-out~~ reads out a paper to produce an
6 image data signal;
7 an operation portion input means which inputs an ~~Internet protocol~~ IP address
8 as a transmitting destination of the image data signal;
9 converting means which converts the IP address of the transmitting destination
10 inputted by the input means into a MAC address by using address resolution protocol
11 (ARP); and
12 ~~a transmission portion which directly~~ communication means which transmits
13 the image data signal obtained by the readout means to a terminal having the inputted
14 IP address of the transmitting destination on the network by packet switching.
- 1 2. (Cancelled)
- 1 3. (Cancelled)
- 1 4. (Cancelled)
- 1 5. (Cancelled)
- 1 6. (Cancelled)

WN-2298

- 1 7. (Cancelled)
- 1 8. (Cancelled)
- 1 9. (Cancelled)
- 1 10. (Cancelled)
- 1 11. (Cancelled)
- 1 12. (Cancelled)
- 1 13. (Cancelled)
- 1 14. (Cancelled)
- 1 15. (Cancelled)
- 1 16. (Cancelled)
- 1 17. (Cancelled)
- 1 18. (Cancelled)
- 1 19. (Cancelled)
- 1 20. (Cancelled)
- 1 21. (Cancelled)

1 22. (New) A network scanner apparatus as claimed in claim 1, further comprising:
2 storing mean which caches the MAC address converted by the converting
3 means for a constant time;
4 wherein the IP address inputted by the input means is converted to the MAC
5 address by the use of the MAC address cached in the storing means.

1 23. (New) A network scanner apparatus as claimed in claim 1, further comprising:
2 network storing means which registers an IP address of the network scanner
3 apparatus itself that transmits the image data signal, a subnet mask and a default root;
4 judging means which judges whether or not an AND value between the IP
5 address of the transmitting destination and the subnet mask is equal to an AND value
6 between the IP address of the apparatus itself registered in the network storing means
7 and the subnet mask;
8 default converting means which converts the IP address of the default root into
9 the MAC address by using the address resolution protocol (ARP); and
10 router communication means which transmits the image data signal into a
11 router having the IP address of the default root by the packet switching; wherein;
12 when the AND values are equal to each other, the IP address is converted into
13 the MAC address by the converting means and the image data signal is transmitted
14 into the terminal having the IP address of the transmitting destination by the
15 communication means, and
16 when the AND values are not equal to each other, the IP address is converted
17 into the MAC address by the default converting means and the image data signal is
18 transmitted into the router having the IP address of the default root by the router
19 communication means.

1 24. (New) A computer-readable storage medium, storing a program executed by a
2 network scanner apparatus, comprising the steps of:
3 controlling a network by TCP/IP protocol;
4 reading out a paper to produce an image data signal;

5 inputting an IP address as a transmitting destination of the image data signal;
6 converting the inputted IP address of the transmitting destination into a MAC
7 address by using address resolution protocol (ARP); and
8 transmitting the image data signal into a terminal having the inputted IP
9 address of the transmitting destination on the network by packet switching.

1 25 (New) A computer-readable storage medium, storing a program executed by a
2 network scanner apparatus, comprising the steps of:
3 controlling a network by TCP/IP protocol;
4 reading out a paper to produce an image data signal;
5 inputting an IP address as a transmitting destination of the image data signal;
6 converting the inputted IP address of the transmitting destination into a MAC
7 address by using address resolution protocol (ARP);
8 caching the converted MAC address for a constant time;
9 converting the inputted IP address into the MAC address by the use of the
10 cached MAC address;
11 transmitting the image data signal into a terminal having the inputted IP
12 address of the transmitting destination on the network by packet switching.

1 26. (New) A computer-readable storage medium, storing a program executed by a
2 network scanner apparatus which registers an IP address of a computer itself that
3 transmits an image data signal, a subnet mask and a default root, comprising the steps
4 of:
5 controlling a network by TCP/IP protocol;
6 reading out a paper to produce an image data signal;
7 inputting an IP address as a transmitting destination of the image data signal;
8 converting the inputted IP address of the transmitting destination into a MAC
9 address by using address resolution protocol (ARP);
10 transmitting the image data signal into a terminal having the inputted IP
11 address of the transmitting destination on the network by packet switching;

12 judging whether or not an AND value between the IP address of the
13 transmitting destination and the subnet mask is equal to an AND value between the IP
14 address of the computer itself and the subnet mask;
15 converting the IP address of the default root into the MAC address by using
16 the address resolution protocol (ARP); and
17 transmitting the image data signal into a router terminal having the IP address
18 of the default root by the packet switching; wherein;
19 when the AND values are equal to each other, the IP address is converted into
20 the MAC address and the image data signal is transmitted into the terminal having the
21 IP address of the transmitting destination, and
22 when the AND values are not equal to each other, the IP address is converted
23 into the MAC address and the image data signal is transmitted into the router having
24 the IP address of the default root.